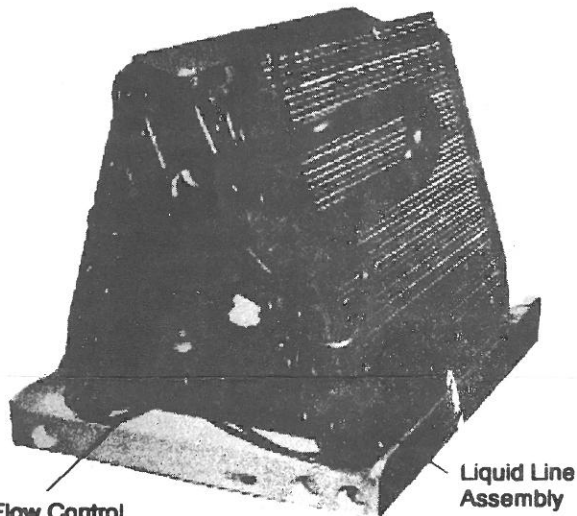


# Installation Instructions

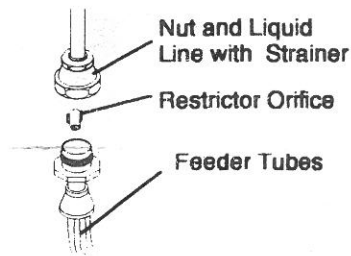
## Expansion Valve Kits TXV153 & TXV355

These instructions must be read and understood completely before attempting installation.



Flow Control Housing

Liquid Line Assembly



Nut and Liquid Line with Strainer

Restrictor Orifice

Feeder Tubes

This kit utilizes a nonbleed expansion valve that allows the installer to convert a piston type coil to an expansion valve coil. A Hard Start accessory must be used with the outdoor unit if the outdoor unit does not have a scroll compressor.

**NOTE:** Always use two (2) wrenches when removing or installing fittings to avoid bending or twisting any tubes.

1. Remove the liquid line assembly from the indoor coil's flow control housing. Fittings have right hand threads.

2. Remove the restrictor orifice from the flow control device.

3. Attach the TXV assembly to the flow control housing and tighten finger tight, then tighten an additional 1/6 turn (one hex flat).

4. The kit includes a pointed hole tool designed to be used in a drill. Using the tool in a drill, put a 1/8" hole in the top side of the suction line immediately before or after the return (180°) bend. This will position it downstream from the Temperature Sensing Bulb. Insert the equalizer line into the suction line and braze using a suitable alloy such as Silfos-5. **NOTE: The equalizer tube MUST point upward so it will not collect oil.**

5. Clean the suction manifold where the sensing bulb will be located. Mount the Temperature Sensing Bulb on the suction manifold with the mounting clamp provided. The sensing bulb should be located at the 4 o'clock or 8 o'clock position. **MAKE SURE** the bulb is straight on the manifold with good contact.

6. Install the liquid line assembly on the expansion valve and reform the tube to match the opening in the coil cabinet tubing plate. Use care to avoid flattening the tube in the bend area.

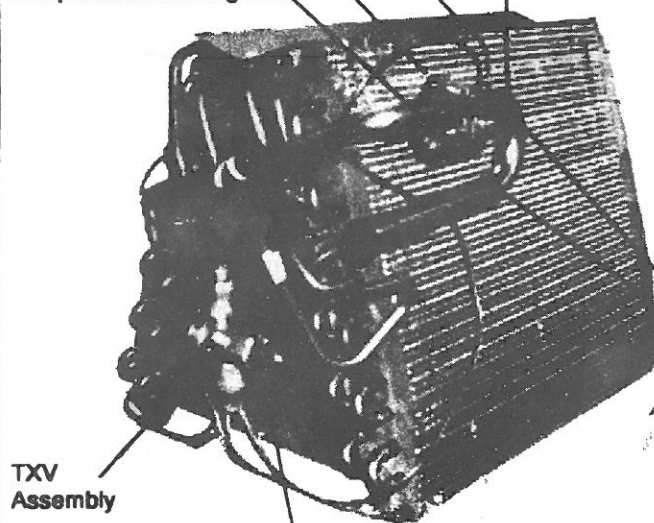
**NOTE:** On smaller size coils it will be necessary to push down on the expansion valve to bend the distributor tubes so the liquid line will fit under the suction manifold.

7. Apply the identification label next to the nameplate of the indoor unit.

### CHARGING GUIDELINES

Systems equipped with this expansion valve kit should be charged using liquid subcooling method. For optimum performance, subcooling should be set to 10°F to 12°F with outdoor ambient between 65°F and 115°F.

Equalizer Line Suction Manifold  
Mounting Clamp  
Temperature Sensing Bulb



TXV Assembly

Use care to avoid flattening the liquid line.

Make sure equalizer line is installed on topside of suction manifold, just before or after return (180°) bend.

Kit Number	Model Number	Used On
TXV153	AMF153TKB	1-1/2 to 3 Ton
TXV355	AMF355TKB	3-1/2 to 5 Ton